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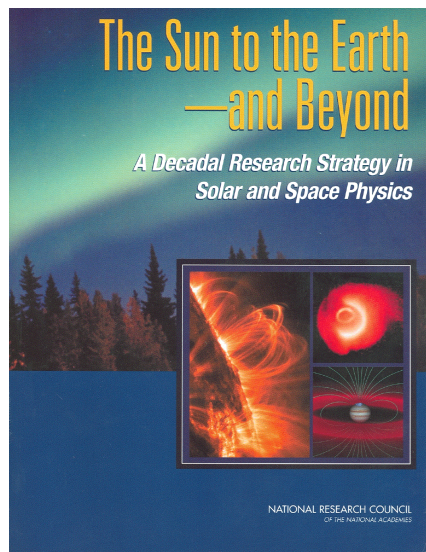
# **Heliophysics 2012 “(mini)Roadmap”: Aligning the Decadal Strategy for Solar and Space Physics => NASA Heliophysics)**

J. Newmark  
NASA HQ

Wide variety of studies,  
both internal and NASA-  
sponsored NRC studies



National Academies  
Decadal Survey



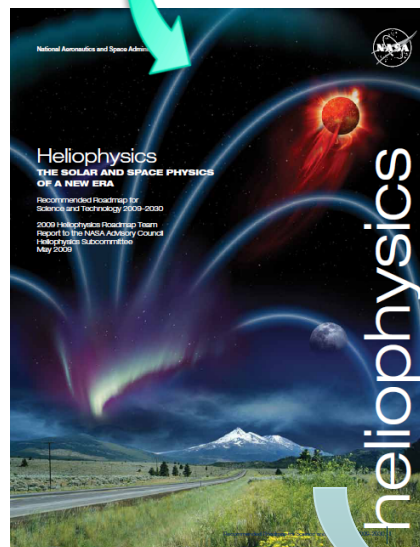
# Structure of Strategic Planning

## How do all the studies and documents relate?



NASA Science Plan

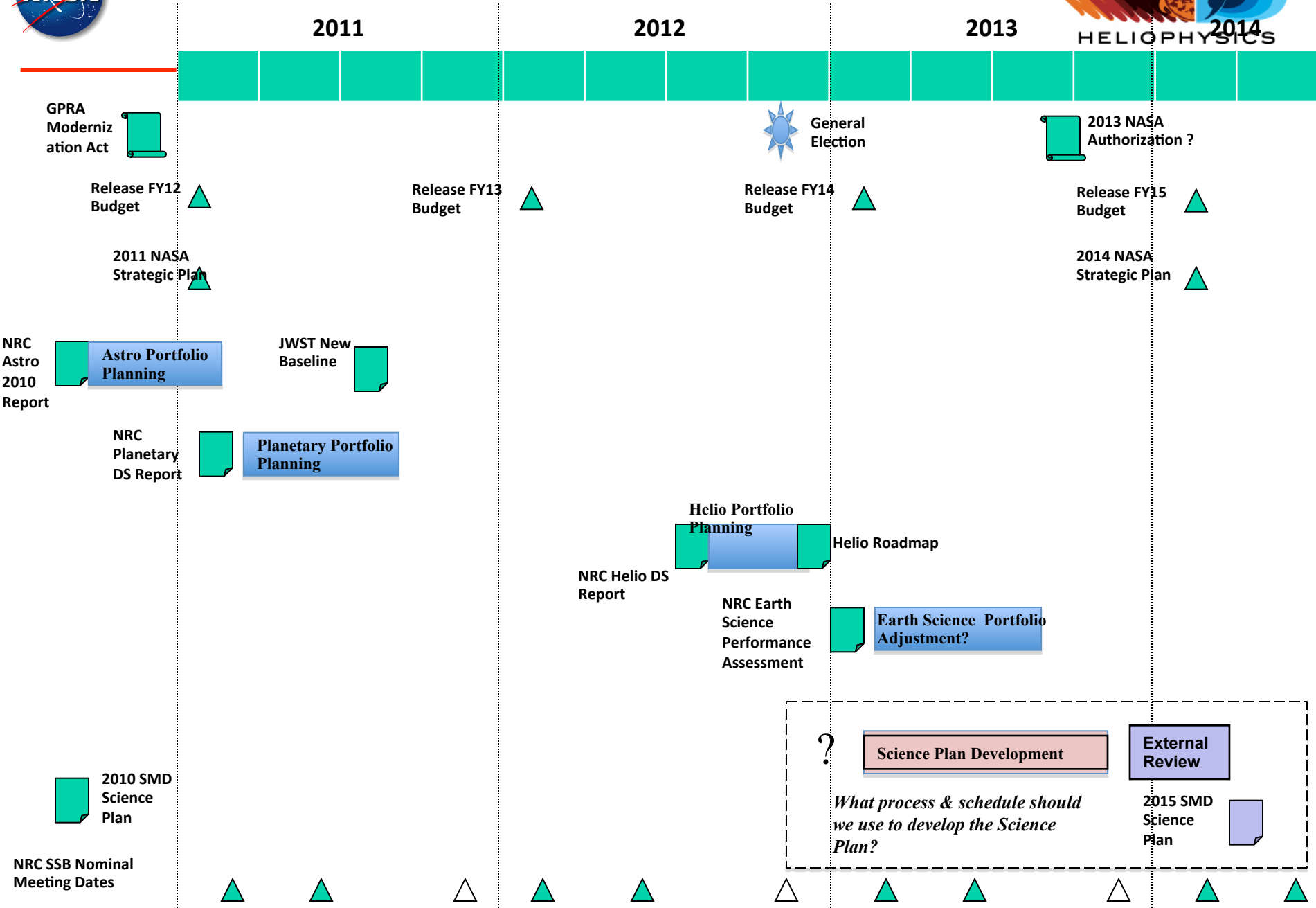
Heliophysics  
Roadmap



NASA  
Strategic Plan



# SMD Strategic Planning Context & Events





# The 2013-2022 NRC Decadal Survey for Solar and Space Physics

**Daniel N. Baker**, Chair

**Thomas Zurbuchen**, Vice-Chair

**Arthur Charo**, National Research Council



# OSTP View of Decadal Surveys

## ***“Decadal Survey benefits:***

- **Community-based documents offering consensus of science opportunities to retain US scientific leadership**
- **Provides well-respected source for priorities & scientific motivations to agencies, OMB, OSTP, & Congress”**

## ***“Most useful approach:***

- **Frame discussion identifying key science questions**
  - **Focus on what to do, not what to build**
  - **Discuss science breadth & depth (e.g., impact on understanding fundamentals, related fields & interdisciplinary research)**
- **Explain measurements & capabilities to answer questions**
- **Discuss complementarity of initiatives, relative phasing, domestic & international context”**



\*From “The Role of NRC Decadal Surveys in Prioritizing Federal Funding for Science & Technology,” Jon Morse, Office of Science & Technology Policy (OSTP), NRC Workshop on Decadal Surveys, November 14-16, 2006



# 2013-2022 Survey Task Summary

- **Provide an overview of the science and a broad survey of the current state of knowledge in the field**, including a discussion of the relationship between space- and ground-based science research and its connection to other scientific areas;
- **Identify the most compelling science challenges** that have arisen from recent advances and accomplishments;
- **Identify the highest priority scientific targets** for the interval 2013-2022 (having considered scientific value, urgency, cost category and risk, and technical readiness).
- **Develop an integrated research strategy** that will present means to address these targets

Note:

1. NASA missions not yet in formulation or development will be reprioritized;
2. Reference missions can be proposed by White Paper. No grandfathered missions.



# Roadmap 2012



## **Charter:**

- **Align Decadal Survey science strategy with NASA Heliophysics Program**
- **Craft a sustainable science program that is achievable within our resources and constraints**
- **Construct a useful strategic plan with a notional scheme to guide the implementation of critical science in the HPD program**
- **Streamlined Document**
- **High level mission studies, no point designs**





# Roadmap Committee



Ed Deluca – SAO, chair	Larry Kepko – GSFC, co-chair
John Leibacher – NSO	Russ Howard – NRL
Janet Kozyra – U. Michigan	Mihir Desai* – SWRI
Greg Howes – Iowa	Xinlin Li – U. Colorado
Steve Petrinec – LMSAL	Ruth Leiberman – GATS
Daniel Winterhalter – JPL	Larry Paxton – APL
Maura Hagan* – NCAR	George Fisher - Berkeley
* HPS Member	





## Nature of the 2012 (mini)Roadmap

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- **Roadmap – Implementation response to Decadal. Report to the HPS. Presents both long-term goals and nearer-term objectives. The Roadmap is the product of, and is periodically revised by, the science community at large.**
- **Decadal will produce a wealth of material – Integrated research strategy covering:**
  - **Science: Challenges, Priorities, Strategies**
  - **Missions: Cost, technical readiness, measurement requirements**
  - **Currently Unknown: Specifics, directions, mission study details, topics**
- **The key for the Roadmap is to focus on:**
  - **Align the science strategy developed by the Decadal with the Heliophysics Program over the next 10 years**
  - **Extend the strategy out to 2033**
  - **Follow the 2009 Roadmap paradigm of presenting a science priority with a flexible mission implementation approach consistent with the current (FY13) budget profile**
  - **Identify needed Technology development**
- **Goal: Roadmap rollout Dec. 2012.**



# Schedule – Faster than Standard



- **Kickoff Telecon – early July**
- **Decadal release: Summer (August?)**
- **Panel Meeting #1 – August (after decadal release) - expectations, science objectives, RFAs, early opportunities**
- **No community workshop – significant community involvement during Decadal – specifically solicit quad-charts from Decadal white papers and general community through newsletters**
- **Panel Meeting #2 – early October – writing assignments, mission queue plan, missing technology, review Quad charts**
- **HPS Status review, Draft document**
- **Panel Meeting #3 – late November, Finish implementation, final writing assignments, identify gaps, figures, traceability matrix,**
- **Red team review – 30 November**
- **Roadmap rollout Dec. 2012**